



AlcoSense[®] SURETY

Fuel Cell Breathalyser



USER'S MANUAL



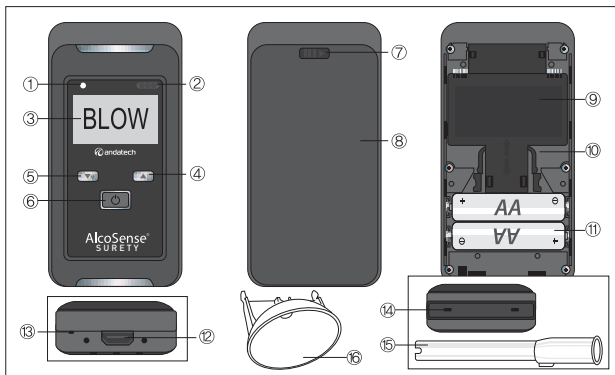
Thank you for purchasing an AlcoSense® Surety breathalyser.

We hope you enjoy owning your AlcoSense® Surety breathalyser. If you have any questions regarding the unit or want to speak with us further, please visit alcosense.com.au or call 1300 800 200 (between 9am and 5:30pm Monday to Friday).

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Components



- | | |
|--------------------------|--------------------------------|
| 1. Lamp | 9. Sensor Module |
| 2. IrDA window | 10. Handle of sensor module |
| 3. Display | 11. Batteries |
| 4. Up button | 12. USB/printer connector |
| 5. Menu, down button | 13. Hand strap |
| 6. Power, select button | 14. Mouthpiece receptacle |
| 7. Battery cover release | 15. Mouthpiece |
| 8. Battery cover | 16. Sampling cup for fast mode |

Contents

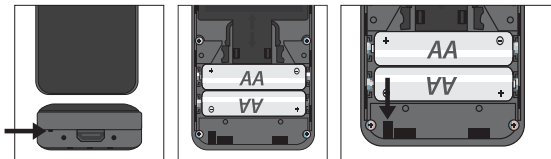
- | | |
|----------------------|--------------------------------|
| 1 x Breathalyser | 1 x Leather pouch |
| 5 x Mouthpiece | 1 x Sampling cup for fast mode |
| 1 x Hand strap | |
| 1 x USB cable for PC | |
| 2 x Batteries | |
| 1 x Manual | |
| | [Sold separately] |
| | Printer, Bluetooth, SD card |

Preparation

1. Attaching the hand strap

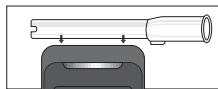
Push the battery cover release to the right side and pull the battery cover down and remove it.

Insert hand strap into the small hole in the housing. Loop it around the hook on the inside of the hole, then replace battery cover.



2. Fitting the mouthpiece

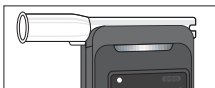
Insert mouthpiece into the port on the top of the device securely with a click.



A new mouthpiece is to be used for every person tested. Mouthpiece can be used with orientation to right or left side.



or



*The same applies to the sampling cup for fast mode.

Basic Operation



Turning the unit on

1. Press the power button.
 - a. Press and hold the power button to see device information including serial number, date and time.
2. Wait until the unit has warmed up and "BLOW" is displayed.



Taking a test

1. Install a mouthpiece.
2. While "BLOW" is displayed, blow slowly and steadily through the mouthpiece until the tone stops.
3. "Analyzing/Wait" is displayed while the breath sample is processed.
4. Test results will be displayed for 15 seconds.
5. If a printer is connected, a test receipt will print.



Taking consecutive tests

1. After previous test results have been displayed "WAIT" will display while the unit processes any remaining alcohol from the previous sample.
2. Once the unit has finished processing the previous test "BLOW" will be displayed.
3. Unit is ready to accept another sample.



Powering the unit off

1. Press and hold the power button.
2. "Power Off" will be displayed.

Power Off
-2sec-

Power Off
-1sec-

3. Continue holding the power button until the unit is powered off (approximately 3 seconds).

Auto Power Off

Auto Power Off

1. If no activity is detected for 4 minutes the unit will automatically power off to save batteries.
2. If the printer cable is connected or the unit is in "Fast" mode, Auto Off time is extended to 15 minutes.

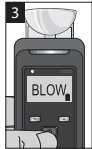
Downloading Data / AndaLink Software

Test results are saved onto the device. Results can be downloaded to your PC via the AndaLink software.

To download AndaLink software, go to **downloads.andatech.com.au**

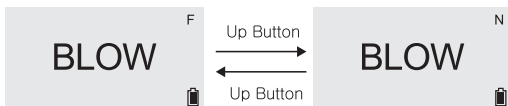
Fast Mode Operation


Fast Mode checks for the presence of alcohol in a breath test, and provides a fast Pass/Fail response. Individual mouthpieces are not needed, use the sampling cup. Set the measurement mode to "Fast mode" in the menu to enable fast testing.



1. Turn the unit on.
2. Wait for the unit to display "Blow", an "F" will display in the upper right corner to indicate unit is in fast mode.
3. Blow into the sample cup unit the unit beeps.
4. Results will display as "Pass" or "Fail".
5. If a printer is connected, a test result will print.
6. When "BLOW" is displayed subsequent tests can be performed.

While in "Fast Mode", a standard test can be taken as follows.



1. When the unit displays "BLOW", press the  [UP] button to cycle between Fast and Normal mode. ("F" = Fast Mode, "N" = Normal Mode)
2. Unit will return to fast mode automatically after test in normal mode.

Troubleshooting / Warning Display

1. Flow error during test. Breath sample was not steady enough or it was not long enough. Wait for the device to return to ready condition. Blow with a long steady breath. Continue blowing until tone stops.

Flow Error

2. Test result exceeds 0.250%BAC.

OLT

3. Battery power is low. Please replace the batteries.

Change Batteries



100%



70%



30%



0%

Battery symbol

4. Calibration service is required (please contact your local distributor for further instructions)

Calibration
Required

Calibration is required every 6 months or 1000 tests, whichever comes first. Calibration information is stored in the sensor module.

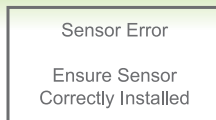
5. Number of tests after calibration (Memorised in sensor module)

C. Test No

6. Number of tests with device (Memorised in device)

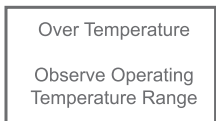
L. Test No

7. Error with sensor module



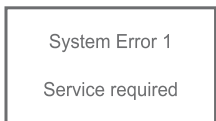
Remove and reinstall the sensor unit. Ensure sensor is fully seated.

8. Error with using temperature



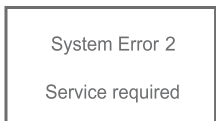
The device is not functional under -5°C and over 40°C.

9. System Error 1 (Condenser charging error)



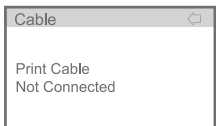
Contact your local distributor.

10. System Error 2 (Sensor leakage)



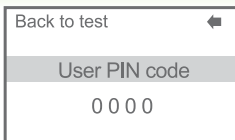
Contact your local distributor.


11. Print Cable Not Connected



If there is no cable connection, LCD will display "Print Cable not Connected".

Menu



To enter Menu mode, press the power button then push the  (menu) button.

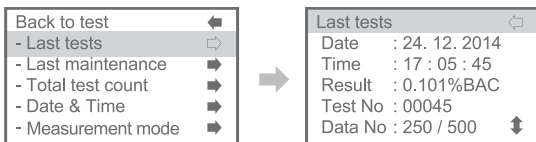
Press the power button again to key in user pin code (Default: 0000).

Contents of Menu

- | | |
|--------------------|-------------------|
| ① Last tests | ⑧ Set language |
| ② Last maintenance | ⑨ Backlight |
| ③ Total test count | ⑩ Printer |
| ④ Date & time | ⑪ Save to SD card |
| ⑤ Measurement mode | ⑫ Bluetooth |
| ⑥ Set date | ⑬ Change user pin |
| ⑦ Set time | ⑭ Set contrast |

Menu

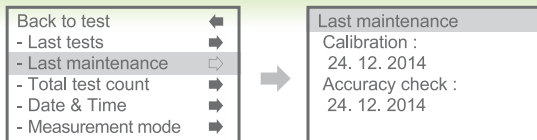
① Last tests



Last test result is showing. You can check up to 500 accumulated test results by pressing the UP/DOWN button.

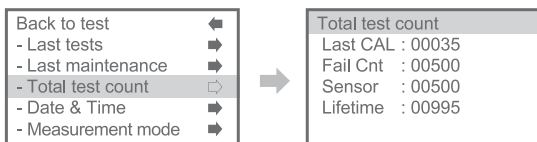
*Data No: Test result number / the number of stored test results (*The latest 500 test results).

② Last maintenance



The date of last calibration and accuracy check.

③ Total test count



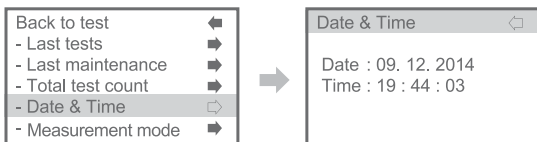
① Last CAL: The number of tests after the last calibration

② Fail Cnt: The number of failed tests

③ Sensor: The number of tests on installed sensor module
(*Sensor module stores number of tests)

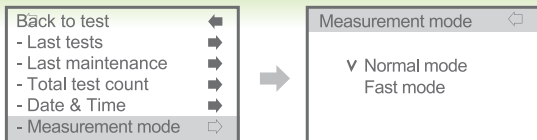
④ Lifetime: Total number of tests on the device

④ Date & Time



Checking date and time of the device.

⑤ Measurement mode



A. Normal mode

Measure alcohol content in human breath. Test result is displayed in digits. For further instructions, refer to page 6 Basic Operation.

B. Fast mode

Check for the presence of alcohol in breath. Test will be quicker and more convenient. The result is displayed as "P" (PASS) or "F" (FAIL). No mouthpiece is needed; simply use the sampling cup provided. For further instructions, refer to page 8 Fast Mode Operation.

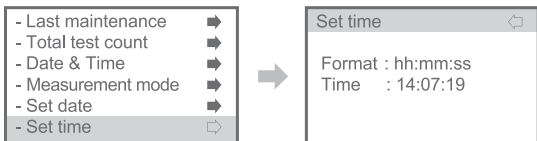
⑥ Set date

Adjust date format and date.



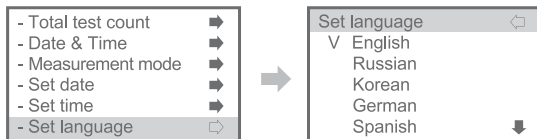
⑦ Set time

Adjust time.



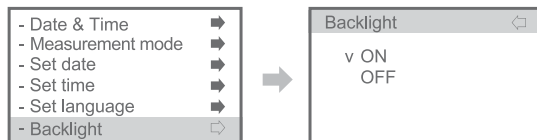
⑧ Set language

Set the language for display. Available options: English, Russian, Korean, German, Spanish, Italian.



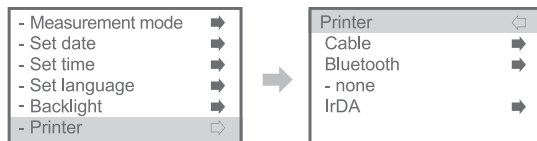
*Menu is available in English only.

⑨ Backlight



⑩ Printer

Setting printer connection mode



① Cable

Ensure printer is turned on and printer cable is connected prior to selecting.


a) Last data

Cable	←
Last data	
Selected data	⇨
Range (?~?)	➡

Press the power button, the last data can be printed.

b) Selected data

Cable	←
Last data	
Selected data	⇨
Range (?~?)	➡




Selected data		⇨
Date	:	24. 12. 2014
Time	:	17 : 05 : 45
Result	:	0.000%BAC
Test No	:	00045
Data No	:	250 / 500
		↕

Select data using UP/DOWN button. Press and hold the power button for 1-2 seconds until selected data is printed.

c) Range (?~?)

Cable	←
Last data	
Selected data	➡
Range (?~?)	⇨



Range (?~?)		⇨
00001 to 00250		
Next		➡

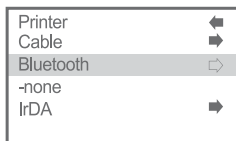
Press the power button then select the data range using UP/DOWN button. Press the power button again.



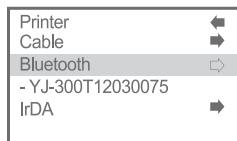
Select next for printing and press the power button. The selected data will be printed.

② Bluetooth [Optional function]

(A) not available

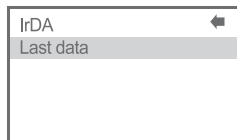
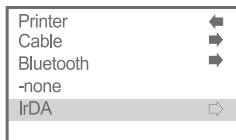


(B) Available



Please check that your device enables Bluetooth function.
For more information, refer to page 19 Optional function – Bluetooth.

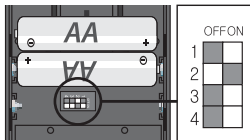
③ IrDA



Select last data and close the device's IrDA window to the printer's IrDA window then press the power button.



Ensure that both IrDA windows are facing each other. Last test result will be printed.

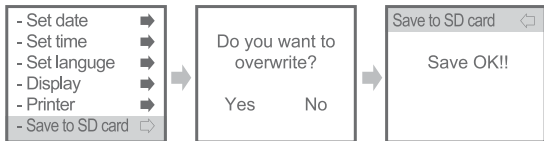


2nd switch OFF: Bluetooth OFF,
IrDA ON

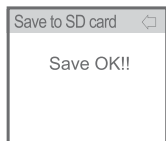
2nd switch ON: Bluetooth ON,
IrDA OFF

IrDA and Bluetooth function are not compatible so check the printer switch which is in battery lot in mobile printer.

11 Save to SD card

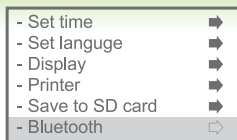


If you select yes, data in SD card will be deleted and data in the device will be loaded to SD card.



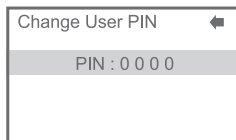
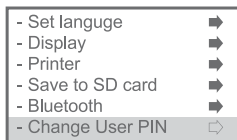
If there is no SD card, "Not available" will be displayed.

⑫ Bluetooth



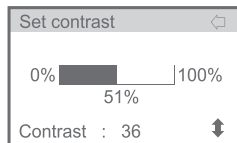
This function is optional.
Please check your device is
operating in Bluetooth mode.

⑬ Change user pin



Setting new user pin. "Password save" will be shown after setting.

⑭ Set contrast



Use arrows to adjust contrast.
Select power button to confirm
and go back.

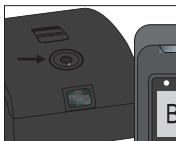
Optional Function - Bluetooth

A. Printer with Bluetooth in Menu, p.14

Printer	←
Cable	➡
Bluetooth	➡
-YJ-300T11800479	
IrDA	➡

If there was a printer connected before, the device remembers it and printer serial number will be shown as diagram on the left.

Printer	←
Cable	➡
Bluetooth	➡
-YJ-300T11800479	
IrDA	➡
Waiting : 9[sec]	



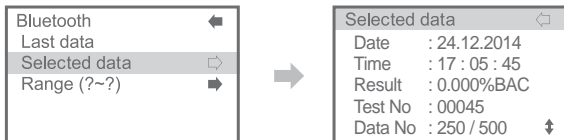
Enter Bluetooth mode. Waiting time will be shown. Orange and green lights on the printer button indicate successful connection.

a) Last data

Bluetooth	←
Last data	
Selected data	➡
Range (?~?)	➡

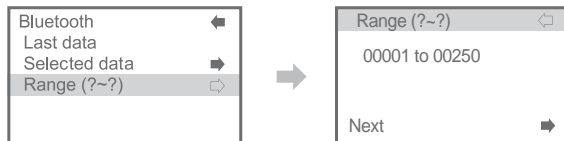
Press the power button, the last data can be printed.

b) Selected data

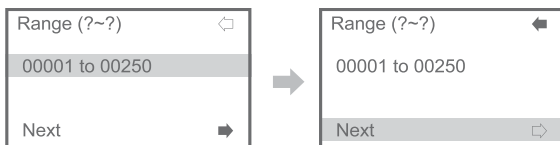


Select data using UP/DOWN button. Press and hold the power button for 1-2 seconds until selected data is printed.

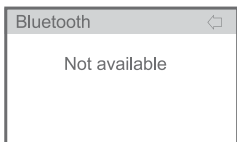
c) Range (?~?)



Press the power button then select the data range using UP/DOWN button. Press the power button again.

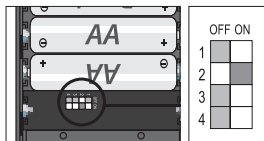


Select next for printing and press the power button. The selected data will be printed.



“Not available” means no Bluetooth is connected.

*Note: Please check printer before using bluetooth function.

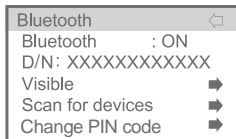
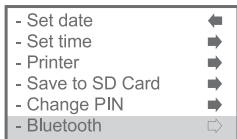


2nd Switch OFF: Bluetooth OFF, IrDA ON

2nd Switch ON: Bluetooth ON, IrDA OFF

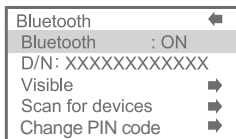
2nd switch on right side of the battery lot of the mobile printer has to be in “ON” status, like the diagram above.

B. Bluetooth mode setting in Menu, p.16.

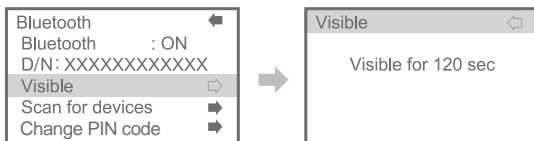


Enter Bluetooth mode.

1. Bluetooth function ON/OFF

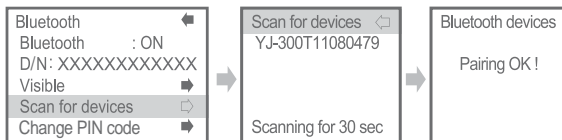


2. Visible



- Bluetooth connecting device with AndaLink Software in PC.
- For the installation, please refer to AndaLink Manual in AndaLink Software. See page 7.

3. Scan for devices



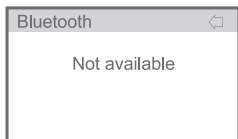
- Searching for available Bluetooth devices takes around 30 seconds.
- Select the device and press (m) button.
- Then "Pairing OK" will show on the LCD with beep sound from mobile printer.

4. Change PIN code



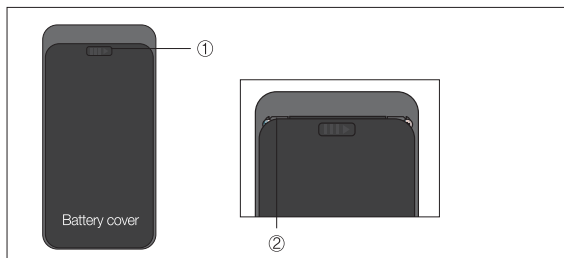
- For the Bluetooth connecting with PC.
- For the setting, please refer to AndaLink manual in AndaLink software. See page 7.

*The PIN code for connecting with Printer is 1000.

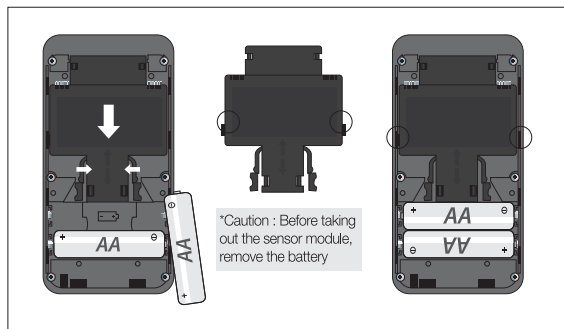


The device is not available for Bluetooth connecting. "Not available" will be shown on the LCD. Please check your device is supporting Bluetooth function.

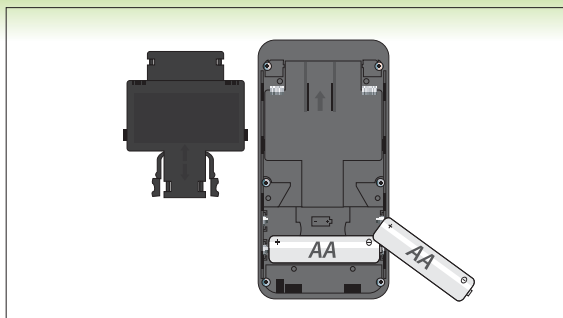
Replacing Batteries / Sensor Module



1. Push battery cover release to the right and slide the cover down to remove it.
2. Remove the batteries.

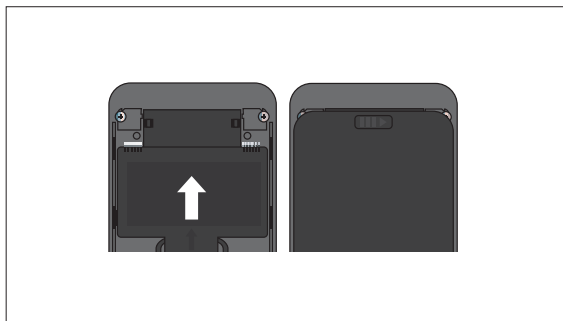


3. Grab handles to release locks, and slide the sensor down.



4. Take out the sensor module.

5. Reassemble in reverse order.



6. Ensure sensor is fully seated and both locks are engaged.

! Caution! Charging batteries while in the device will cause damage.

Specifications

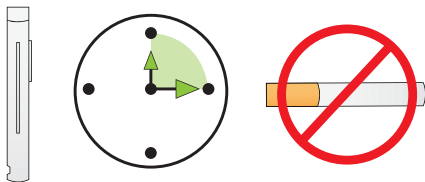
Indication of BAC	0.000 ~ 2.500 ‰ 0.000 ~ 0.250%BAC 0.000 ~ 1.250 mg/l BrAC 0.000 ~ 2.500 g/l 0~125µg/100ml 0~1250µg/l
Warm up time	5 seconds ~ 2 minutes
Response time	Within 10 seconds at 0.100%BAC
Accuracy	±0.005%BAC at 0.100%BAC
Ambient conditions	Operation: -5 °C ~ 40 °C Storage: -10 °C ~ 50 °C
Sensor	Replaceable fuel cell sensor
Calibration	Every 1000 tests or 6 months (Australian Standards Requirement), whichever comes first
Use mouthpieces	Only compatible with AlcoSense mouthpieces
Power supply	Two 1.5V AA Alkaline Batteries
Battery change	Approx. 3,000 tests
Weight	198g (including batteries)
Dimensions (mm)	133 (height) x 64 (width) x 33 (thickness)
Measurements memory	Approx. 500 measurements (without SD card) (Device No. / Date % Time / test result & number)

Disclaimers

- This product must be used strictly in accordance with the instructions in this manual.
- This product is intended to provide the user with an indication of alcohol on the breath. However, neither the manufacturer nor the supplier gives any warranty (express or implied) that the product can give any indication of blood alcohol level.
- A person's BAC (Blood Alcohol Concentration) can only be accurately measured by the administration of a blood test. This product only measures breath alcohol content which, in turn, only gives an approximate indication of blood alcohol concentration.
- In these circumstances the user of this product should not rely on the information provided thereby as an accurate indication of their blood alcohol concentration or of their level of intoxication or of their fitness to drive and in particular should not take any action in reliance on such information as the product can provide no more than an indication of alcohol on the breath.
- If the user of this product makes any decision or takes any action based on the use of the product such decision or such action shall be at the sole risk of the user and neither the manufacturer nor the supplier assumes any responsibility for such decision or action.
- In particular, neither the manufacturer nor the supplier shall be in any way liable if the user of the product asserts that the product led them to believe they were fit to operate a motor vehicle and are subsequently found not to be so fit.

Measurements & Conditions for Test

- Use a clean mouthpiece for each test.
- Do not allow samples containing smoke, tobacco or other chemical products to enter the unit, as damage to the fuel cell can occur.
- There must be an interval of at least 15 minutes after alcohol consumption as alcohol residue in the mouth may give a false reading. Such residue may also be left by aromatic drinks, mouthwash, medicines and drops, as well as by belching and vomiting. Rinsing your mouth with water or non-alcoholic drinks does not substitute for an interval.
- A person's blood alcohol concentration (BAC) can continue to rise for up to 2 hours after drinking alcohol. If a caution results or a result is close to the designated BAC, it is recommended to wait and retest after 20 minutes.
- It can take 10 hours or more for a person's BAC to return to zero after a high BAC has been reached. A further test should be carried out later in the day or the following morning.



LIABILITY FOR PROPER FUNCTION OR DAMAGE

The liability for proper functioning of the instrument is irrevocably transferred to the owner or operator in the event the instrument is serviced or repaired by personnel not employed or authorised by Andatech. In such an event, the warranty will be void.

Warranty Details

It is our aim to provide you with quality products that you can trust. Our products come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or a refund for a major failure and for compensation for any other reasonably foreseeable loss or damage.

You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

The Guarantee

The product is guaranteed to be free from defects in workmanship and parts for a period of 1 year from the date of purchase. Defects that occur within this warranty period, under normal use and care, will be repaired, replaced or refunded at our discretion, solely at our option with no charge for parts and labour. The benefits conferred by this warranty are in addition to all rights and remedies in respect of the product that the consumer has under the Trade Practices Act and similar state laws.

Proof of Purchase

This warranty is valid for the original purchase and is not transferable. Please keep your purchase docket or receipt as proof of purchase and as proof of date on which the purchase was made. The purchase docket (or a copy) or receipt must be presented with the warranty when making a claim under this warranty.

Service during the Warranty Period

To claim for warranty, contact us on 1300 800 200 or info@andatech.com.au to get an RA# (Return Authorisation Number). Ensure that the RA# is clearly stated on the outside of the packaging and that the product is properly packaged so that no damage occurs to the product during transit. Shipping of the product back to us for warranty will be at your cost. A product return without the RA# or proof of purchase will not be accepted.

Extent of Warranty

This warranty is limited to defects in workmanship or parts. All defective products or parts will be repaired or replaced. This warranty does not cover manuals and packaging.

Normal Wear and Tear

This warranty does not cover normal wear and tear to the product or parts.

Exclusions

This warranty does not cover:

- Calibration costs.
- Any defect caused by an accident, misuse, abuse, improper operation, lack of reasonable care, unauthorised modification, loss of parts, tampering or attempted repair by a person not authorised by the distributor.
- Any product that has been damaged by a lightning strike either directly or indirectly or a main power surge or liquid ingress.
- The product if it is located outside of Australia.
- Any damage caused by improper power input or improper cable connection.



WARRANTY

The manufacturer warrants for 1 year from the date of purchase, the product to be free from defects in workmanship or material (excluding recalibration) under normal use. The manufacturer's obligation under this warranty is limited to replacing, adjusting or repairing the unit if returned along with proof of purchase. This warranty is void if the unit has been tampered with, damaged or abused in any way.

Visit **my.andatech.com.au** to register your warranty online and receive calibration reminders.

CALIBRATION AND SERVICE

Andatech recommends the AlcoSense® Surety to be calibrated every 1000 tests or for Australian Standards requirement every 6 months, whichever comes first.

To register your product and book in a calibration, please go to **my.andatech.com.au** or contact:

Andatech Corporation Pty Ltd

Hotline: 1300 800 200

Website: www.alcosense.com.au

AlcoSense Guarantee

We take pride in the quality and integrity of our breathalysers, and it's important to us that you get the most out of using our products.

With this commitment in mind, we will extend the warranty of your AlcoSense Breathalyser for up to **5 years** from the original purchase date as long as you keep it calibrated every 6 months from the date of purchase.



Go to **andatech.com.au/alcosense-guarantee** for more information and for terms and conditions.

EASY WAY TO EXTEND YOUR WARRANTY

Sign up for a Breathalyser Management Plan and save time and money each year. It's the easiest way to get your breathalyser calibrated every 6 months, and saves you the hassle of booking it in each time.

- ☒ Set and "forget"
- ☒ Save costs
- ☒ Priority calibration

Go to **andatech.com.au/breathalyser-management** or call 1300 800 200 for more information.



Andatech Corporation Pty Ltd

www.andatech.com.au

1300 800 200

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